



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 08/728,463A
Source: 1644
Date Processed by STIC: 3/30/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1644

RAW SEQUENCE LISTING

DATE: 03/30/2001

PATENT APPLICATION: US/08/728,463A

TIME: 15:36:33

Input Set : A:\-90-2us.app

Output Set: N:\CRF3\03302001\H728463A.raw

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Lonberg, Nils

7 Kay, Robert M.

9 (ii) TITLE OF INVENTION: Transgenic Non-Human Animals for

10 Producing Heterologous Antibodies

12 (iii) NUMBER OF SEQUENCES: 409

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Townsend and Townsend and Crew LLP

16 (B) STREET: Two Embarcadero Center, Eighth Floor

17 (C) CITY: San Francisco

18 (D) STATE: California

19 (E) COUNTRY: USA

20 (F) ZIP: 94111-3834

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/08/728,463A

C--> 30 (B) FILING DATE: 10-Oct-1996

31 (C) CLASSIFICATION:

89 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: US 08/544,404

35 (B) FILING DATE: 10-OCT-1995

38 (A) APPLICATION NUMBER: US 08/352,322

39 (B) FILING DATE: 07-DEC-1994

42 (A) APPLICATION NUMBER: US 08/209,741

43 (B) FILING DATE: 09-MAR-1994

46 (A) APPLICATION NUMBER: US 08/165,699

47 (B) FILING DATE: 10-DEC-1993

50 (A) APPLICATION NUMBER: US 08/161,739

51 (B) FILING DATE: 03-DEC-1993

54 (A) APPLICATION NUMBER: US 08/155,301

55 (B) FILING DATE: 18-NOV-1993

58 (A) APPLICATION NUMBER: US 08/096,762

59 (B) FILING DATE: 22-JUL-1993

62 (A) APPLICATION NUMBER: US 08/053,131

63 (B) FILING DATE: 26-APR-1993

66 (A) APPLICATION NUMBER: US 07/990,860

67 (B) FILING DATE: 16-DEC-1992

70 (A) APPLICATION NUMBER: US 07/904,068

71 (B) FILING DATE: 23-JUN-1992

74 (A) APPLICATION NUMBER: US 07/853,408

75 (B) FILING DATE: 18-MAR-1992

78 (A) APPLICATION NUMBER: US 07/810,279

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RAW SEQUENCE LISTING

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79 (B) FILING DATE: 17-DEC-1991
82 (A) APPLICATION NUMBER: US 07/575,962
83 (B) FILING DATE: 31-AUG-1990
86 (A) APPLICATION NUMBER: US 07/574,748
87 (B) FILING DATE: 29-AUG-1990
90 (A) APPLICATION NUMBER: WO PCT/US91/06185
91 (B) FILING DATE: 29-AUG-1991
93 (viii) ATTORNEY/AGENT INFORMATION:
94 (A) NAME: Serafini, Andrew T.
95 (B) REGISTRATION NUMBER: 41,303
96 (C) REFERENCE/DOCKET NUMBER: 014643-009020US
98 (ix) TELECOMMUNICATION INFORMATION:
99 (A) TELEPHONE: (415) 576-0200
100 (B) TELEFAX: (415) 576-0300

ERRORED SEQUENCES

3625 (2) INFORMATION FOR SEQ ID NO: 195:
3627 (i) SEQUENCE CHARACTERISTICS:
3628 (A) LENGTH: 24 base pairs *23 stous*
3629 (B) TYPE: nucleic acid
3630 (C) STRANDEDNESS: single
3631 (D) TOPOLOGY: linear
W--> 3633 (ii) MOLECULE TYPE: DNA
3636 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:
E--> 3638 GAAACGCAGC TGACGCAGTC TCC

24 23

VERIFICATION SUMMARY

DATE: 03/30/2001

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Input Set : A:\-90-2us.app

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:111 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:212 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:228 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:244 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:260 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:292 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:308 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:324 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:340 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:356 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:372 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
L:388 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18
L:404 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
L:422 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
L:440 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21
L:458 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
L:476 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:494 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
L:512 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
L:528 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26
L:544 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:560 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:576 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:592 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30
L:608 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31
L:624 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32
L:640 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33
L:656 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34
L:672 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35
L:688 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36
L:704 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37
L:720 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38
L:736 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39
L:752 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=40
L:768 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=41
L:784 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=42
L:800 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=43
L:816 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=44
L:832 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=45
L:848 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=46
L:864 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=47
L:880 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=48
L:896 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=49
L:912 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50
L:928 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=51

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L:944 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=52
L:960 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=53
L:976 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=54
L:992 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=55
L:2727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140
L:2787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:3638 M:254 E: No. of Bases conflict, Input:24 Counted:23 SEQ:195
L:3638 M:204 E: No. of Bases differ, LENGTH:Input:24 Counted:23 SEQ:195
L:6243 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 298